

19U408

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Name:

Reg.No:

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2021

(CBCSS - UG)

CC19U GEO4 B07 - OPTICAL AND DESCRIPTIVE MINERALOGY

(Geology - Core Course)

(2019 Admissions - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* question. Each question carries 2 marks.

1. Polarized light.
2. Interference of light.
3. Isotropic minerals.
4. Uniaxial indicatrix.
5. Optic sign of biaxial mineral.
6. Structural formula of Garnets.
7. Omphacite.
8. Double chain silicates.
9. Muscovite.
10. Diagnostic features of epidote mineral in hand specimen.
11. Chlorite.
12. Uses of Dolomite.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* question. Each question carries 5 marks.

13. Pleochroism.
14. Brewster's law.
15. Plagioclase feldspar.
16. Feldspathoids group of minerals.
17. Modes of occurrence and uses of Spinel.
18. Optical and Physical properties of Topaz.
19. Optical and Physical properties of Zircon.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. Each question carries 10 marks.

20. Explain optical accessories and uses with neat sketches.
21. Structure, Chemistry, Optical and Physical properties, mode of occurrences and uses of Olivine group of minerals.

(1 × 10 = 10 Marks)
